Use these four segments:

$$\overline{AB}$$
 $A(12,16)$ $B(4,2)$

$$\overline{CD}$$
 $C(-1,9)$ $D(-9,8)$

$$\overline{EF}$$
 $E(4,-1)$ $F(20,1)$

$$\overline{GH}$$
 $G(23,0)$ $H(2,12)$

- 1. Which two segments are parallel?
- 2. Which 2 segments are perpendicular?
- 3. Which two segments are congruent?

		SLOPE	DISTANCE FORMULA
\overline{AB}	A(12, 16) B(4, 2)	$M = \frac{16-2}{12-4} = \frac{14}{8} = \frac{7}{4}$	182 + 142 = V260
\overline{CD}	C(-1,9) D(-9,8)	$m = \frac{1}{8}$	V12+82 = V65
EF	E(4,-1) F(20,1)	$m = \frac{2}{16} = \frac{1}{8}$	$\sqrt{16^2+2^2} = \sqrt{260}$
GH	G(23,0) H(2,12)	$M = \frac{12}{-21} = \frac{4}{-7}$	(12 ² +(21)°=